



## City of Westminster

8200 Westminster Boulevard, Westminster CA 92683 714.548.3254  
www.westminster-ca.gov

### CALIFORNIA GREEN BUILDING CODE 2013

Applies to **Residential Buildings** (three stories or less) for which permit application is made on or after January 1, 2014, the following standard notes shall be completed and incorporated into the approved plans and all effected design features and specifications shall be made to conform.

#### WATER EFFICIENCY AND CONSERVATION

##### INDOOR WATER USE (CGBSC 4.3)

4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.

4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code, and shall meet the applicable referenced standards.

##### OUTDOOR WATER USE (CGBSC 4.304.1)

When provided by the builder prior to final inspection, automatic irrigation system controllers for landscaping shall be:

- weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.
- weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

#### MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406.1 Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.

4.408.1 Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 50 percent reduction.

#### BUILDING MAINTENANCE AND OPERATION

An operation and maintenance manual shall be provided to the building occupant or owner. The manual shall remain with the building throughout the life cycle of the home and shall contain but is not limited to the following items. (CGBSC 4.410.1)

#### ENVIRONMENTAL QUALITY

**FIREPLACES** Wood burning devices including fireplaces are not permitted under SCAQMD Rule 445. Any installed gas fireplace shall be a direct-vent sealed-combustion type. (CGBSC 4.503.1)

4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.

**MECHANICAL EQUIPMENT AND DUCT PROTECTION** To reduce the amount of dust and debris collected in mechanical equipment and ducts, all duct openings and other related air distribution equipment component openings shall be covered from the time of delivery at the jobsite through the construction until final start up. (CGBSC 4.504.1)

#### **FINISH MATERIAL POLLUTANT CONTROL**

- **Adhesives, sealants and caulks** shall meet the applicable standards of CGBSC 4.504.2.1 and tables 4.504.1 and 4.504.2 for VOC limits and content prohibitions.
- **Paints and coatings** shall meet the applicable standards of CGBSC 4.504.2.2 and table 4.504.3 for VOC limits.
- **Aerosol paints and coatings** shall meet the applicable standards of CGBSC 4.504.2.3

**Carpet systems** shall meet the applicable standards of CGBSC 4.504.3 including CGBSC 4.504.31 for **carpet cushions** and CGBSC 4.504.3 **carpet adhesives**.

**Resilient flooring** shall meet the applicable standards of CGBSC 4.504.4

**Composite wood products** shall meet the applicable standards of CGBSC 4.504.5 and table 4.504.5

#### **INTERIOR MOISTURE CONTROL**

- **Water damaged** building materials shall not be installed.
- **Moisture content of wood** used in wall and floor framing shall be verified not to exceed 19% prior to approval to cover (CGBSC 4.506.3). Verification testing shall be performed using a probe-type or contact-type meter at three random locations between 2 and 4 feet from the grade stamped end of the piece being checked.
- **Insulation** products shall be dry when covered. Wet-applied insulation products shall meet the manufacturer's recommendations prior to enclosure.

#### **AIR QUALITY AND EXHAUST** (CGBSC 4.506)

Humidity controlled exhaust fans which terminate outside the building are provided in every bathroom unless otherwise a component of a whole house ventilation system.

#### **ADDITIONAL AIR QUALITY REQUIREMENTS- 2013 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (BEES) (Not applicable to hotels or motels)**

Specific indoor air quality standards required by the California Building Energy Standards, section 150(o), and reference document ASHRAE 62.2 apply as follows:

- Bathroom exhaust fan shall be provided having a minimum capacity of **50 cfm**, a sound rating of **3 sones** or less unless designed for continuous operation and installed to operate without occupant intervention. In which case, the minimum capacity must be **20 cfm** and a sound rating of **1 sone** or less.
- Kitchen exhaust fan shall be provided having a minimum capacity of **100 cfm** and a sound rating of **3 sones** or less unless designed for continuous operation and installed to operate without occupant intervention. In which case the minimum

capacity must be **5** air changes per hour based on the kitchen volume and a sound rating of **1 sone** or less.

- Whole Building Ventilation shall be provided. Fan capacity shall be demonstrated to comply based on equation 4.1a or 4.2 per ASHRAE 62.2. Fans intended for continuous operation shall have a sound rating not exceeding **1 sone**.

Equation 4.1a:  $Q_{fan} = 0.03 \cdot A_{floor} + 7.5 \cdot (N_{br} + 1)$

$Q_{fan}$ : ventilation airflow requirement (cfm)

$A_{floor}$ : conditioned floor area (square feet)

$N_{br}$ : Number of bedrooms